

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE TEMPORARY INSTALLATION OF THE TRAFFIC CONTROL EQUIPMENT AT THE INTERSECTION OF MD 450 AT MARTHA'S CHOICE CIR. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION  
THE INTERSECTION WILL OPERATE IN A NEMA-THREE-PHASE, FULLY ACTUATED MODE. THE MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON MARTHA'S CHOICE CIR WILL OPERATE CONCURRENTLY.

CONTROLLER REQUIEMENTS

INSTALL A FULL TRAFFIC ACTUATED, SOLID STATE EIGHT PHASE CONTROLLER WITH SYSTEM PACKAGE, TELEMETRY MODULE, ISOLATION BOARD AND SPECIAL RELAY HOUSED IN A NEMA SIZE "6" POLE MOUNTED CABINET.

SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
971016	816	1 EA.	EIGHT PHASE, FULL TRAFFIC ACTUATED SOLID STATE DIGITAL CONTROLLER WITH SYSTEM PACKAGE, HOUSED IN A NEMA SIZE "6" POLE MOUNTED CABINET

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
114245	XXX	70 L.F.	24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
203030	205	1 C.Y.	TEST PIT EXCAVATION
810010	810	45 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG)
833062	805	15 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-RISER
837001	804	1 EA.	GROUND ROD 3/4 IN. X 10 FT. LENGTH
860272	814	18 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	810	160 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	370 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
869101	819	160 L.F.	1/4 IN. STEEL TETHER WIRE
869102	819	160 L.F.	3/8 IN. STEEL SPAN WIRE
870167	805	80 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-BORED
871201	816	1 EA.	INSTALL CONTROLLER AND CABINET-POLE MOUNT
800000	818	2 EA.	40 FT. CLASS II WOOD STRAIN POLE WITH TWO BACK GUYS

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

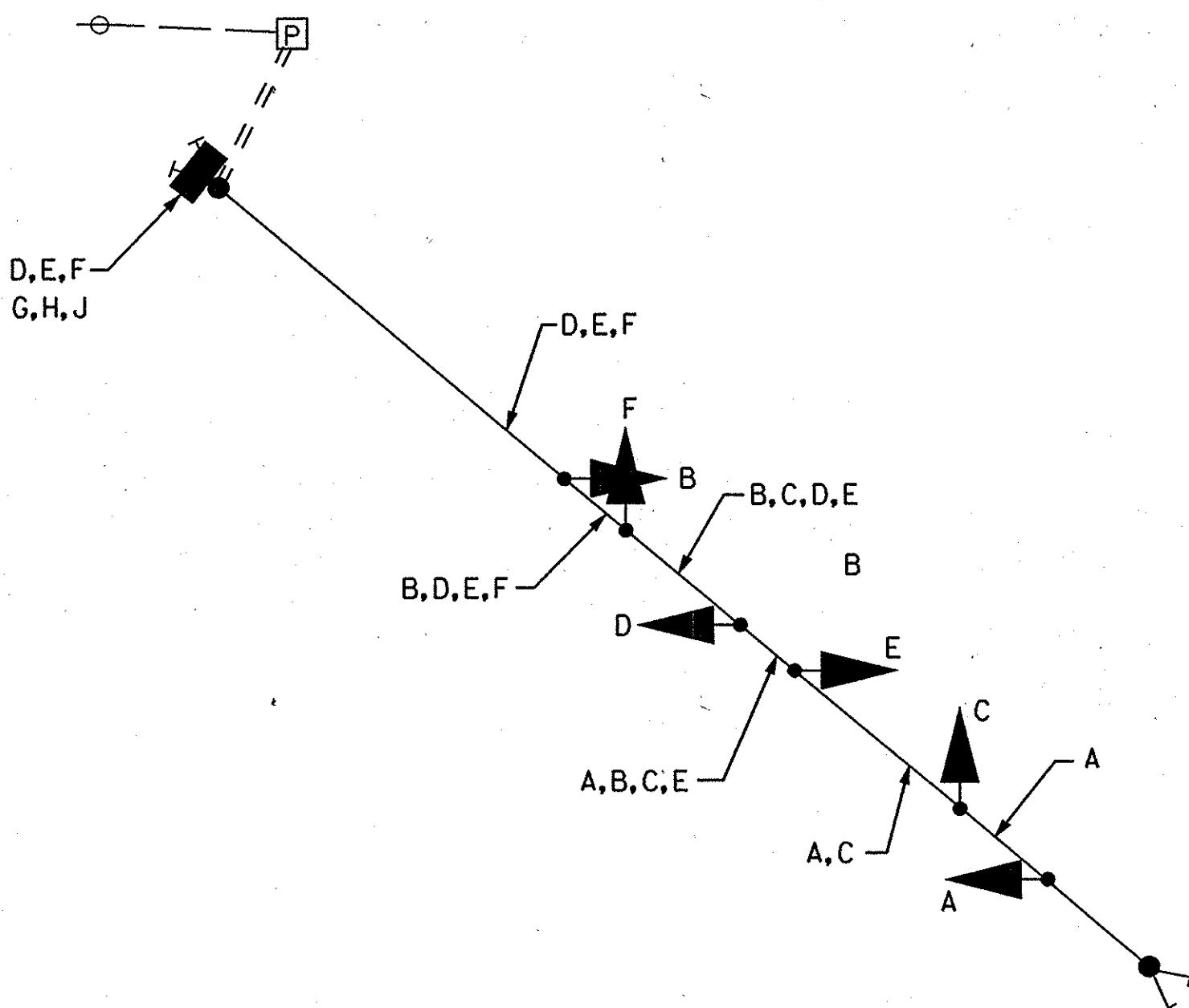
ROBERT SNYDER ASSISTANT DIVISION CHIEF  
TRAFFIC OPERATION DIVISION  
PHONE: 410-787-7630

MAJID SHAKIB  
ASSISTANT DISTRICT ENGINEER-TRAFFIC  
PHONE: 301-513-7358

RALEIGH MEDLEY  
ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
PHONE: 301-513-7304

AUGIE REBISH  
ASSISTANT DISTRICT ENGINEER-UTILITIES  
PHONE: 301-513-7350

WIRING DIAGRAM



- A, B, C ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
- D, E, F ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
- G, H, J ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG)

PHASE CHART

	1	2	3	4	5	6	
	(R)	(R)	(R)	(R)	(R)	(R)	
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	
	(G)	(G)	(G)	(G)	(G)	(G)	
PHASE 2+6	G	G	G	G	R	R	←→
2+6 CHANGE	Y	Y	Y	Y	R	R	←→
PHASE 4	R	R	R	R	G	G	↓
4 CHANGE	R	R	R	R	Y	Y	↓
FLASHING OPERATION	FL Y	FL Y	FL Y	FL Y	FL R	FL R	↔↔↔

EQUIPMENT LIST "C"

NONE

REDLINE REVISION 5 DATE 10/8/03 NEW SHEET

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET			
MD 450 - MD 193 TO STONYBROOK DRIVE			
MD 450 AT MARTHA'S CHOICE CIR - TEMPORARY SIGNAL			
DRAWN BY: MB	F.A.P. NO. PG9005571	TS NO.	SHEET NO.
CHECKED BY: PDU	S.H.A. NO. PRINCE GEORGE'S	T.I.M.S. NO. D 538	446 B OF 545
SCALE: NONE	COUNTY: PRINCE GEORGE'S		
DATE: AUGUST 2003	LOG MILE:		

THE WILSON T. BALLARD CO.  
CONSULTING ENGINEERS  
OWINGS MILLS, MARYLAND